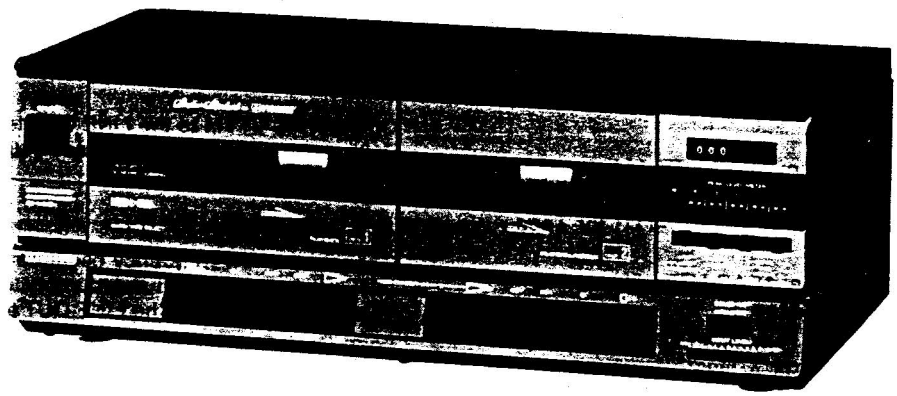
SERVICE MANUAL

FISHER

STEREO DOUBLE CASSETTE DECK

CR-W530

(EUROPE)



142 501 07

SPECIFICATIONS

Motor ..... DC Governor
Cassette Loading ..... (2) Front
Drive System ..... (2) Capstan
Number of Heads 3
Head Material ..... Hard Permalloy/Ferrite
Operation ..... (2) Mechanical
Dubbing ..... Normal/High Speed
Wow & Flutter ..... 0.15% WRMS
Signal-to-Noise Ratio (CCIR Weighted)
  Dolby NR OFF 51dB
  Dolby NR ON 61dB
  (Dolby is registered trademark of Dolby Laboratories.)
Erase Ratio 70dB
Channel Separation 40dB
Signal Crosstalk 70dB
Frequency Response 1-7/8 Ips.
  Normal Tape (±3dB) ..... 50Hz ~ 13kHz
  CrO_2 Equivalent Tape (±3dB) ..... 50Hz ~ 14kHz
  Metal Tape (±3dB) ..... 50Hz ~ 15kHz
Total Harmonic Distortion
  at 0 VU 1.5%
Fast Forward/Rewind Time
  (C-60) ..... 150sec.
Level Indicators ..... L.E.D. Meter
Inputs (Sensitivity/Impedance) ..... (2) Line 100mV/50kΩ
Outputs (Level at 0 VU/Impedance) ..... (2) Line 500mV/2.2kΩ
Tape Selector Switch
  DECK 1 ..... Auto Tape Selector
  DECK 2 ..... Normal, CrO_2, Metal
Tape Counter ..... Mechanical

GENERAL

Power Requirements ..... AC 16V
Power Consumption 15Watts
Dimensions (WxHxD) ..... 400 x 135 x 200mm
Weight (approx) 2.2kg

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570050

CASSETTE DECK ELECTRICAL ADJUSTMENTS

BEFORE ADJUSTMENT

If the tape surface whitch contacts the head, the capstan, and the pinch roller, etc., is stained, it will cause unstable running of the tape, wow and flutter, inperfect recording and erasing, deterioration of tonal quality, and the tape jam around the capstan, etc. Occasionally clean each part as follows;

1. Cut off power.
2. Open the cassette lid.
3. Wipe the head, the capstan, and the pinch roller with a cotton swab. If they are excessively stained, clean them with the swab soaked in absolute alcohol or cleaning liquid on the market.

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Dummy Load (47kΩ)
- Frequency Counter
- Signal Oscillator
- Test Tapes
  - ‡ 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
  - ‡ 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - ‡ 400Hz Test Tape (Example: TEAC MTT-150) for Playback sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
  - ‡ Normal Tape (Example: TDK AC223)

SWITCH POSITIONS

Unless especially indicated, set each switch as follows;

DUBBING Switch ..... LINE REC
SPEED Switch ..... NORMAL
DOLBY NR Switch ..... OFF
TAPE SELECT Switch ..... NORMAL

TAPE SPEED ADJUSTMENT

1. Connect the dummy load (47kΩ) and the frequency counter to the LINE OUT terminal L.
2. Load Deck 2 with a test tape (Example: TEAC MTT-111) and set it in the playback mode. (Deck 1 is stop mode.)
3. Adjust the potentiometer (P301) in the Amplifier P.C.B. until the frequency counter reads 3,000Hz ±10Hz.

HEAD AZIMUTH ADJUSTMENT

1. Connect the dummy load (47kΩ) and the dualtrace oscilloscope to the LINE OUT terminals L and R.
2. Load Deck 1 with a test tape (Example: TEAC MTT-114) and set it in the playback mode.
3. Adjust the azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the right wave form overlaps with the left one.
4. Perform the same adjustment for Deck 2.
5. After the adjustment, secure the adjusting screw with paint or glue.

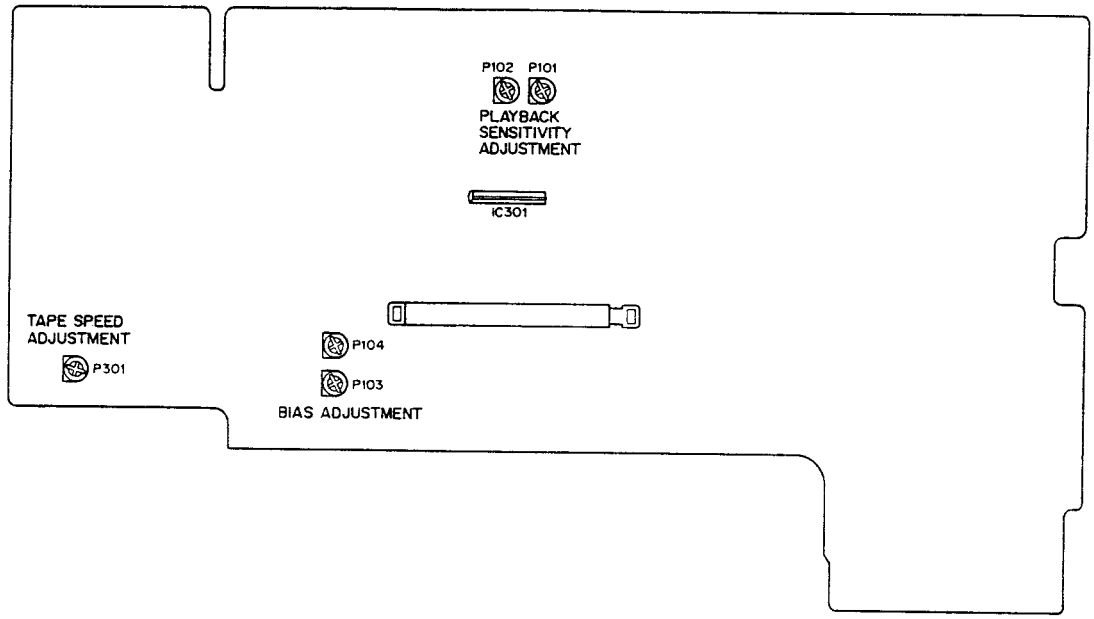
PLAYBACK SENSITIVITY ADJUSTMENT

1. Connect the dummy load (47kΩ) and AC VTVM to the LINE OUT terminal L.
2. Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. adjust P101, so that the output of LINE OUT becomes 500mV.
4. Connect AC VTVM to the LINE OUT terminal R and adjust P102, so that the output becomes 500mV.

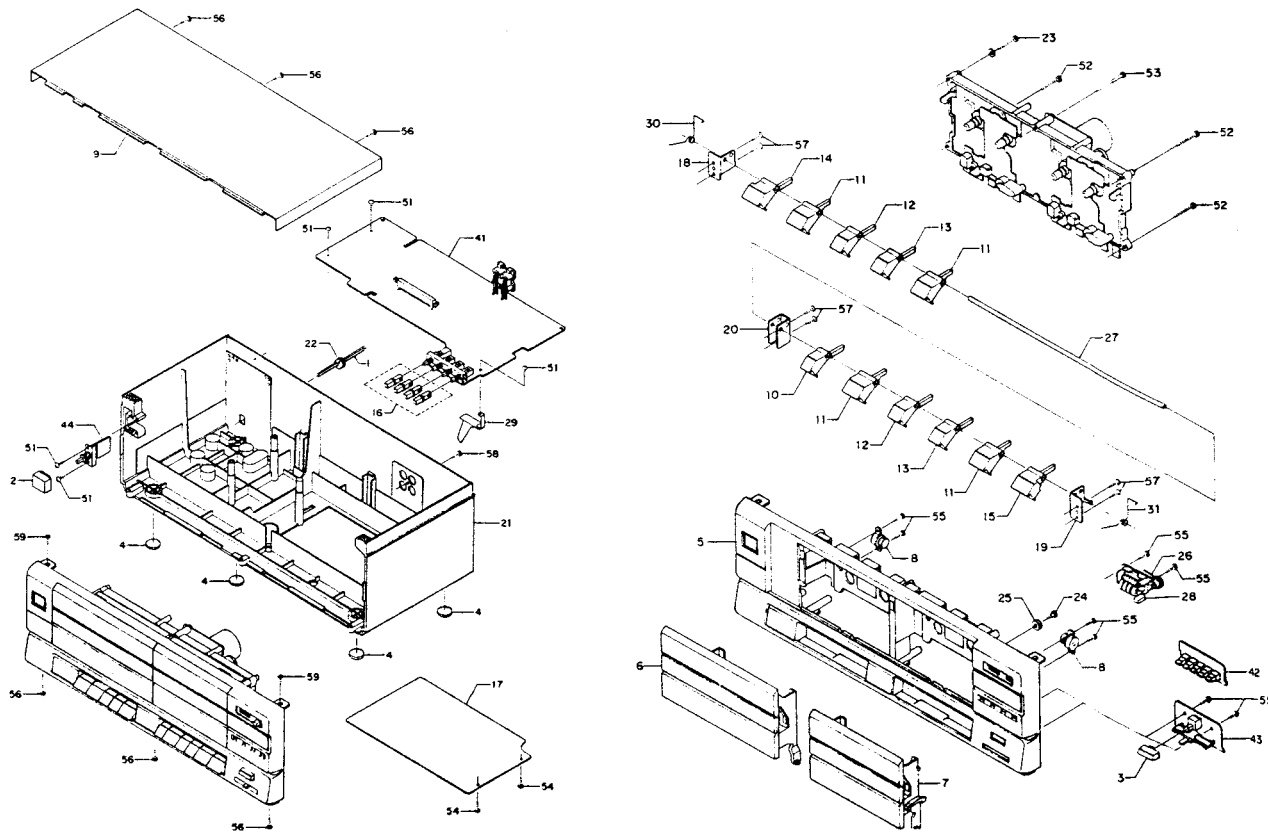
BIAS ADJUSTMENT

1. Connect the low frequency oscillator to the L side of the LINE IN terminal, and the dummy load (47kΩ) and AC VTVM to the L side of the LINE OUT terminal.
2. Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Set the input fevel volume control to the maximum position and feed the signals of 1kHz and 12kHz at 7mV (−43dBs) from the frequency generator into the unit. Then, record the signals on the tape.
4. Play back the recorded signals adjust P103, so that the difference in output of the 1kHz and 12kHz signals become ±0.5dB.
5. Adjust P104 for the R side by following the same procedures as described for the L side.

AMPLIFIER P.C.BOARD ALIGNMENT POINTS
(TOP VIEW)



CABINET & CHASSIS EXPLODED VIEW



CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKAGE			
	620 059 6596	Patching Sheet	1
	620 190 6318	Individual Carton	1
	620 188 7150	Pad Left	1
	620 188 7167	Pad Right	1
	620 152 7452	Serial No. Sheet	3
ACCESSORIES			
	620 057 8783	Bag Fan	1
	620 152 2624	Certificate Card	1
	620 190 3553	Instruction Booklet	1
	620 037 3463	RCA Cord 700mm Black	1
	620 037 3470	RCA Cord 700mm Gray	1
CABINET			
	620 125 8110	Lug	1
	620 125 8424	Wire Band	6
	620 190 4529	Rating Plate	1
1	620 022 1177	Plug Cord Power GY	1
2	620 046 5366	Knob	1
3	620 046 7810	Knob	1
4	620 047 4214	Leg	4
5	620 190 0378	Cabinet Front Assy	1
6	620 188 8539	Lid Cassette Assy Left	1
7	620 188 8546	Lid Cassette Assy Right	1
8	620 083 1772	Gear Eject Assy	2
9	620 089 0618	Cover	1
10	620 186 4038	Knob Record	1
11	620 186 4069	Knob Play, Pause	4
12	620 186 4076	Knob Rewind	2
13	620 186 4083	Knob FF	2
14	620 190 0903	Knob Stop/Eject Left	1
15	620 190 0910	Knob Stop/Eject Right	1
16	620 188 0434	Knob Push	4
17	620 114 8169	Sheet	1
18	620 187 0022	Bracket Spindle (Left)	1
19	620 187 0039	Bracket Spindle (Right)	1
20	620 187 0046	Bracket Spindle (Center)	1
21	620 188 6863	Chassis Cabinet	1
22	620 122 3781	Bushing	1
23	620 122 7024	Screw, Pan Hd. Tapping-B, +M3.0X35	1
24	620 122 7390	Screw, +M2.3X4.0	1
25	620 127 1485	Roller Dial A	1
26	620 128 4478	Belt Drive	1
27	620 129 3500	Spindle Button	1
28	620 188 9796	Counter	1
29	620 138 6349	Spring Earth	1
30	620 139 1916	Spring Lid Cassette (Left)	1
31	620 139 1923	Spring Lid Cassette (Right)	1
41	620 189 7616	Amplifier P.C.B. Assy	1
42	620 189 7623	Meter P.C.B. Assy	1
43	620 189 7630	Volume P.C.B. Assy	1
44	620 189 7647	Power Switch P.C.B. Assy	1

Ref. No.	Part No.	Description	Q'ty
51	411 020 5904	SCR S-TPG BRZ 3X10	5
52	411 020 7007	SCR S-TPG BRZ 3X20	3
53	411 020 7304	SCR S-TPG BRZ 3X30	1
54	411 020 8004	SCR S-TPG BRZ 3X8	2
55	411 021 3107	SCR S-TPG BIN 2.6X8	8
56	411 021 6603	SCR S-TPG BIN 3X8	6
57	411 022 2802	SCR S-TPG FLT 3X10	6
58	411 097 3100	SCR TPG BIN 3X12	1
59	411 065 8601	SCR TPG FLT 3X10	2

NOTES:

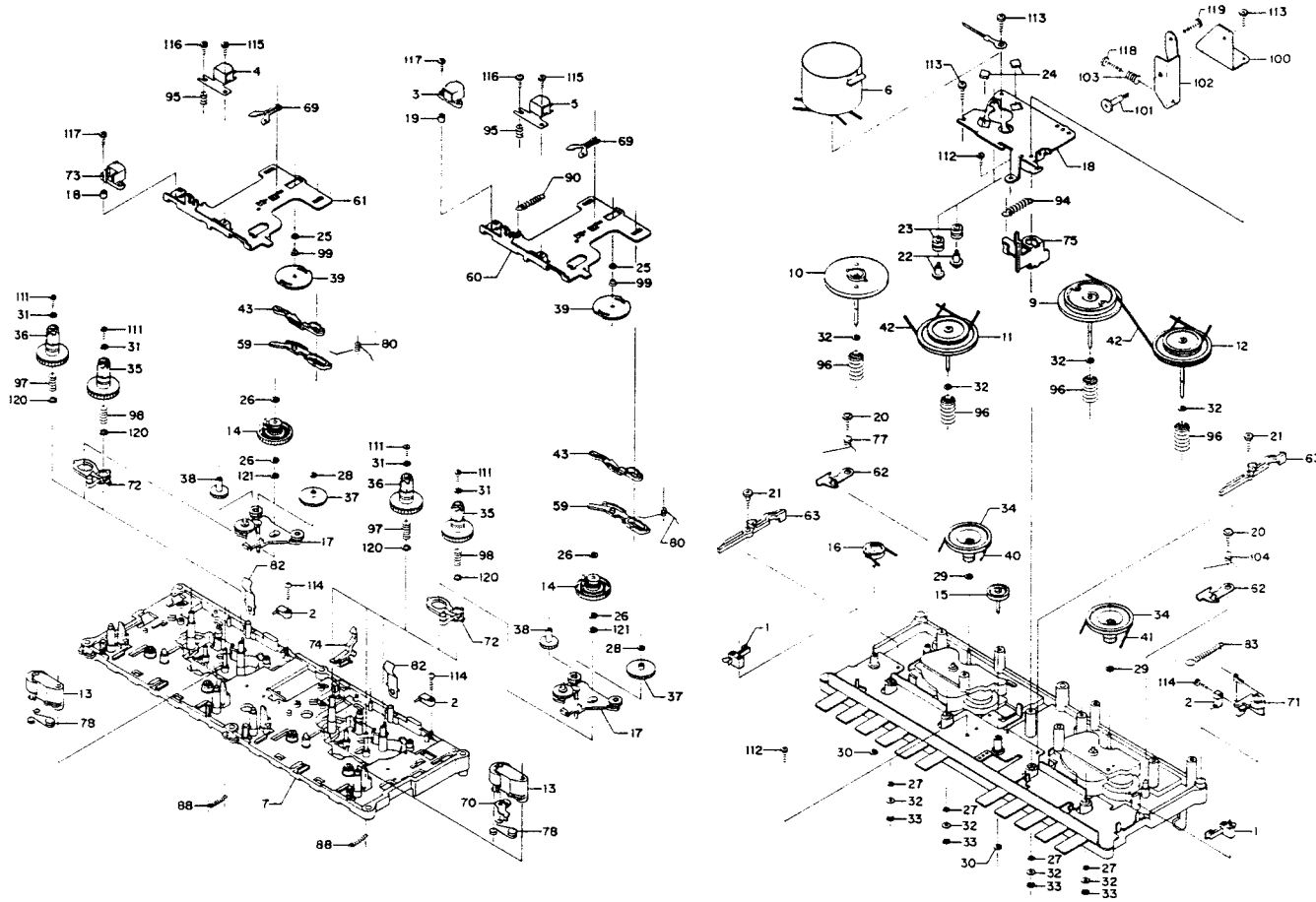
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
	620 018 4908	Socket Pin RT	5
	620 022 4611	Ring Terminal 2.5	1
	620 182 8139	Connector 2P Assy [CN1]	1
	620 182 8443	Connector 3P Assy [CN2]	1
	620 182 8320	Connector 6P Assy [CN3]	1
	620 187 7793	Connector 4P Assy [CN4]	1
	620 187 7786	Connector 4P Assy [CN5]	1
	620 187 7779	Connector 2P Assy [CN6]	1
	403 042 0302	ELECT 10U M 16V [C326]	1
1	620 016 2630	Leaf Switch [S5] (Motor)	1
1	620 016 2630	Leaf Switch [S7] (Motor)	1

Ref. No.	Part No.	Description	Q'ty
2	620 016 8922	Detector Switch [S3] (Tape Select)	1
2	620 016 8922	Detector Switch [S4] (Muting)	1
2	620 016 8922	Detector Switch [S6] (Muting)	1
3	620 023 2166	Erase Head [HD3]	1
4	620 023 6270	Play Head [HD1]	1
5	620 023 6409	R/P Head [HD2]	1
6	620 030 4221	Motor [M1]	1
7	620 081 6106	Chassis Assy	1
8	620 082 1605	Bracket Rod Assy	1
9	620 082 7355	Flywheel PB Assy	1
10	620 082 7379	Flywheel R/P Assy	1
11	620 082 7416	Pulley R/P Assy	1

MECHANISM EXPLODED VIEW

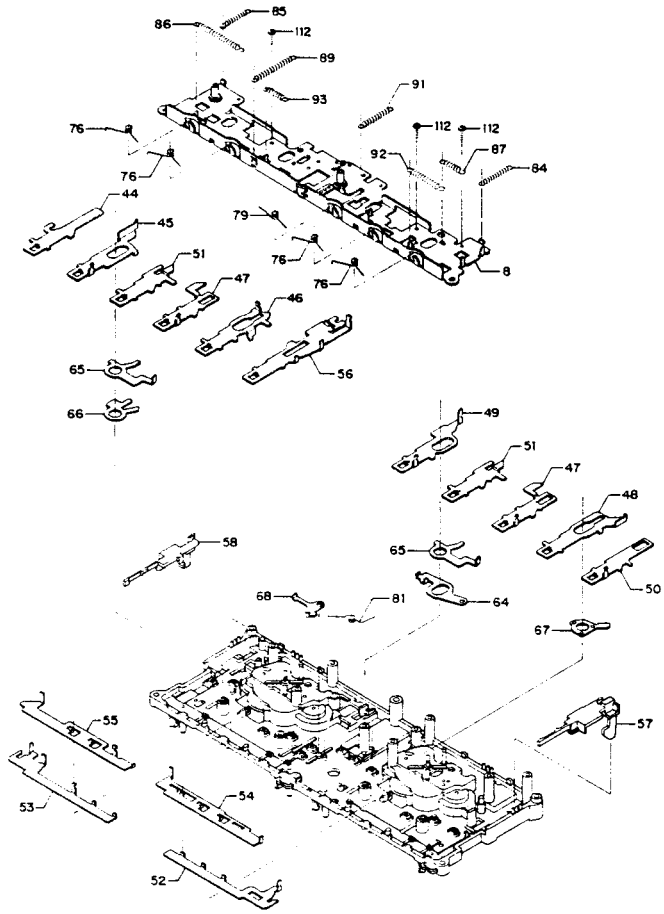


MECHANISM PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
12	620 185 4541	Pulley PB Assy	1
13	620 083 0607	Pinchroller Assy	2
14	620 083 2762	Friction Assy	2
15	620 190 4635	Pulley Drive PB Assy	1
16	620 190 4642	Pulley Drive R/P Assy	1
17	620 083 2823	Gear Complete	2
18	620 119 1943	Bracket Motor	1
19	620 119 7747	Spacer E Head	2
20	620 122 7277	Screw, PTS w/Washer, +M2.0X6.0	2
21	620 122 8397	Screw, Tapping, +M2.0X6.0	2
22	620 122 9356	Screw, PMS w/Washer, +M2.6X1.5	2
23	620 123 9942	Cushion Motor	2
24	620 124 5530	Cushion	2
25	620 125 2071	Washer, M1.6X4.0X0.40	2
26	620 125 2163	Washer, M2.1X5.0X0.13	4
27	620 125 3078	Washer, M2.1X3.5X0.25	4
28	620 125 3382	Washer, M1.25X4.0X0.25	2
29	620 125 3818	Washer, M2.1X4.0X0.125	2
30	620 125 3894	Washer, M1.6X3.2X0.4	2
31	620 125 4235	Washer, M3.0X4.4X0.25	4
32	620 125 4938	Washer, M2.1X4.5X0.20	8
33	620 125 6666	E Ring TE-4	4
34	620 126 3749	Pulley Drive	2
35	620 126 6382	Fix Reel Take-up	2
36	620 126 6399	Fix Reel Supply	2
37	620 127 9283	Gear Forward Play	2
38	620 127 9344	Gear Rewind Relay	2
39	620 127 9610	Gear Power Auto Shut-off	2
40	620 128 6755	Belt Drive	1
41	620 128 6762	Belt Drive PB	1
42	620 128 6823	Belt Wind	2
43	620 130 7252	Lever Sensor	2

Ref. No.	Part No.	Description	Q'ty
44	620 130 7436	Rod Stop R/P	1
45	620 130 7474	Rod Pause R/P	1
46	620 130 7498	Rod Play R/P	1
47	620 130 7511	Rod Rewind	2
48	620 130 7535	Rod Pause PB	1
49	620 130 7559	Rod Play PB	1
50	620 130 7573	Rod Stop PB	1
51	620 130 7597	Rod F FWD	2
52	620 130 7603	Plate Switch Motor PB	1
53	620 130 7610	Plate Switch Motor R/P	1
54	620 130 7627	Plate Lock PB	1
55	620 130 7634	Plate Lock R/P	1
56	620 191 1503	Rod Record	1
57	620 130 7863	Plate Lock Lid PB	1
58	620 130 7870	Play Lock Lid R/P	1
59	620 130 8068	Plate Auto Shut-off	2
60	620 130 8082	Base Slide R/P	1
61	620 185 4725	Base Slide PB	1
62	620 131 8616	Lutch Pause	2
63	620 131 9439	Lever Auto Shut-off	2
64	620 131 9538	Lever Play	1
65	620 131 9545	Lever Cue Reverse	2
66	620 131 9552	Lever Pause R/P	1
67	620 131 9569	Lever Pause PB	1
68	620 131 9576	Lever Stopper Record	1
69	620 131 9583	Lever Change Take-up	2
70	620 131 9682	Lever Arm Pinch	1
71	620 185 5777	Lever Switch PB	1
72	620 132 5751	Lever Arm Gear	2
73	620 136 0608	Guide Tape	1
74	620 136 3852	Interlock Lever	1
75	620 136 4576	Lever R/P Switch M	1

MECHANISM EXPLODED VIEW (Continued)



MECHANISM PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
76	620 137 8979	Spring Rod	4
77	620 137 9617	Spring Pause Latch R	1
78	620 137 9648	Spring Pinch Roller FWD	2
79	620 137 9655	Spring Rod Play	1
80	620 138 0125	Spring Lever Sensor	2
81	620 188 0519	Spring Stopper Record	1
82	620 138 4963	Spring Cassette	2
83	620 139 1527	Spring Lever Switch R/P	1
84	620 139 1701	Spring PL Lock Lid PB	1
85	620 139 1718	Spring PL Lock Lid R/P	1
86	620 139 1725	Spring PL Motor Switch R/P	1
87	620 139 1732	Spring PL Motor Switch PB	1
88	620 139 1763	Spring Arm Gear	2
89	620 139 1770	Spring Rod Play	1
90	620 139 1787	Spring Base Slide R/P	1
91	620 139 1794	Spring Base Slide PB	1
92	620 139 1800	Spring Plate Lock PB	1
93	620 139 1817	Spring Plate Lock R/P	1
94	620 139 1824	Spring Lever Record	1
95	620 139 3835	Spring Head	2
96	620 139 4467	Spring Flywheel	4
97	620 139 4559	Spring REV Reel	2
98	620 139 4566	Spring FWD Reel	2
99	620 139 4696	Spring	2
100	620 185 1496	Bracket R/P Switch	1
101	620 122 9264	Screw, +M2.6X3.2	1
102	620 188 6979	Lever Record	1
103	620 136 8598	Spring Adzimuth	1
104	620 137 9624	Spring Pause Latch P	1

Ref. No.	Part No.	Description	Q'ty
111	412 025 9201	SPECIAL SCREW	4
112	411 021 0809	SCR S-TPG BIN 2X6	5
113	411 021 3107	SCR S-TPG BIN 2.6X8	3
114	411 022 8101	SCR S-TPG PAN 2X7	3
115	411 030 6403	SCR BIN 2X5	2
116	411 030 7509	SCR BIN 2X7	2
117	411 030 7707	SCR BIN 2X8	2
118	411 002 6509	SCR PAN 3X12	1
119	411 030 4409	SCR BIN 2X12	1
120	412 023 2303	SPECIAL WASHER	4
121	412 023 2402	SPECIAL WASHER	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER P.C.B. ASSY			
41	620 189 7616	Amplifier P.C.B. Assy	1
	620 021 6791	RT Pin 1P	5
	620 024 2011	Wire 3 Parallel	1
	620 024 2073	Wire 5 Parallel	1
	620 031 4763	Wire Wrap Terminal	1
	620 055 4183	Jumper	1
	620 053 7247	Plate Heat Sink	1
	620 053 8084	Plate Heat Sink	1
	411 020 8004	SCR S-TPG BRZ 3X8	2
	620 017 2455	Pin Jack 4P	1
CN1	620 022 0545	Plug 2P	1
CN2	620 182 8955	Plug 3P	1
CN3	620 182 8948	Plug 6P	1
CN4	620 182 8993	Plug 4P	1
CN5	620 182 8993	Plug 4P	1
CN6	620 022 0545	Plug 2P	1
S1	620 016 8908	Slide Switch 7P2T (R/P)	1
S2	620 190 1085	Push Switch 4 Key	1
F101	620 029 5802	Dolby Filter	1
F102	620 029 5802	Dolby Filter	1
F103	620 026 4440	Bias Trap	1
F104	620 026 4440	Bias Trap	1
L101	620 027 1882	AF Coil	1
L102	620 027 1882	AF Coil	1
L301	620 028 8989	Bias OSC Coil	1
P101	620 182 6753	Potentiometer (B-330Ω)	1
P102	620 182 6753	Potentiometer (B-330Ω)	1
P103	620 006 1353	Potentiometer (B-100kΩ)	1
P104	620 006 1353	Potentiometer (B-100kΩ)	1
P301	620 006 1407	Potentiometer (B-2.2kΩ)	1
IC101	409 049 6002	IC TA7629P	1
IC102	409 049 6002	IC TA7629P	1
IC301	409 049 3100	IC TA7405P	1
Q101	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q102	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q103	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q104	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q105	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q106	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q107	405 021 0204	TR 2SD1012-F-SPA	1
or	405 033 6409	TR 2SD1450-R	1
Q108	405 021 0204	TR 2SD1012-F-SPA	1
or	405 033 6409	TR 2SD1450-R	1
Q109	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q110	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q111	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q112	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q113	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q114	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q115	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q116	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q117	405 018 0200	TR 2SC3331-U	1
Q118	405 018 0200	TR 2SC3331-U	1
Q119	405 012 2002	TR 2SC1815-GR	1
Q120	405 012 2002	TR 2SC1815-GR	1
Q121	405 018 0200	TR 2SC3331-U	1
Q122	405 018 0200	TR 2SC3331-U	1
Q301	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q302	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q303	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q304	405 019 2906	TR 2SC536-F-SP	1

Ref. No.	Part No.	Description	Q'ty
or	405 000 7606	TR JC501-Q	1
Q305	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q306	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q307	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q308	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q309	405 004 3901	TR 2SA608-E-NP	1
or	405 000 7309	TR JA101-Q	1
Q310	405 004 3901	TR 2SA608-E-NP	1
or	405 000 7309	TR JA101-Q	1
Q311	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q312	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q313	405 018 7209	TR 2SC3708-S	1
Q314	405 032 8206	TR 2SC1846-Q	1
Q315	405 032 8206	TR 2SC1846-Q	1
Q316	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q318	405 021 0204	TR 2SD1012-F-SPA	1
Q320	405 021 0204	TR 2SD1012-F-SPA	1
Q330	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q331	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7606	TR JC501-Q	1
Q332	405 001 0309	TR RN1203	1
Q333	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7705	TR JC501-R	1
Q334	405 001 1108	TR RN2202	1
Q335	405 019 2906	TR 2SC536-F-SP	1
or	405 000 7705	TR JC501-R	1
D301	407 061 2200	DIODE 1SS254-TA	1
D302	407 061 2200	DIODE 1SS254-TA	1
D303	407 061 2200	DIODE 1SS254-TA	1
D304	407 061 2200	DIODE 1SS254-TA	1
D305	407 061 2200	DIODE 1SS254-TA	1
D306	407 049 7005	ZENER DIODE GZA15Y	1
D307	407 049 6404	ZENER DIODE GZA12Z	1
D308	407 061 2200	DIODE 1SS254-TA	1
D311	407 061 2200	DIODE 1SS254-TA	1
D312	407 061 2200	DIODE 1SS254-TA	1
D313	407 061 2200	DIODE 1SS254-TA	1
D314	407 050 7407	ZENER DIODE GZA8.2Z	1
D320	407 005 2105	DIODE DS135D-KB3	1
or	407 061 1500	DIODE 1SR35	1
D321	407 005 2105	DIODE DS135D-KB3	1
or	407 061 1500	DIODE 1SR35	1
D322	407 005 2105	DIODE DS135D-KB3	1
or	407 061 1500	DIODE 1SR35	1
D323	407 005 2105	DIODE DS135D-KB3	1
or	407 061 1500	DIODE 1SR35	1
D329	407 061 2200	DIODE 1SS254-TA	1
C101	403 018 8509	CERAMIC 220P K 50V	1
C102	403 018 8509	CERAMIC 220P K 50V	1
C103	403 155 2606	ELECT 4.7U M 25V	1
C104	403 155 2606	ELECT 4.7U M 25V	1
C105	403 155 2606	ELECT 4.7U M 25V	1
C106	403 155 2606	ELECT 4.7U M 25V	1
C107	403 033 9406	CERAMIC 820P K 50V	1
C108	403 033 9406	CERAMIC 820P K 50V	1
C109	403 059 0401	POLYESTER 0.018U K 50V	1
C110	403 059 0401	POLYESTER 0.018U K 50V	1
C111	403 042 0302	ELECT 10U M 16V	1
C112	403 042 0302	ELECT 10U M 16V	1
C113	403 039 2906	ELECT 47U M 6.3V	1
C114	403 039 2906	ELECT 47U M 6.3V	1
C115	403 058 3700	POLYESTER 0.015U K 50V	1
C116	403 058 3700	POLYESTER 0.015U K 50V	1
C117	403 048 7602	ELECT 0.47U M 50V	1
C118	403 048 7602	ELECT 0.47U M 50V	1
C119	403 048 5400	ELECT 0.33U M 50V	1
C120	403 048 5400	ELECT 0.33U M 50V	1
C121	403 047 9607	ELECT 0.1U M 50V	1
C122	403 047 9607	ELECT 0.1U M 50V	1
C123	403 042 0302	ELECT 10U M 16V	1
C124	403 042 0302	ELECT 10U M 16V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C125	403 062 0900	POLYESTER	0.047U	K	50V	1
C126	403 062 0900	POLYESTER	0.047U	K	50V	1
C127	403 061 8709	POLYESTER	4700P	K	50V	1
C128	403 061 8709	POLYESTER	4700P	K	50V	1
C129	403 060 2807	POLYESTER	0.027U	K	50V	1
C130	403 060 2807	POLYESTER	0.027U	K	50V	1
C131	403 062 5608	POLYESTER	5600P	K	50V	1
C132	403 062 5608	POLYESTER	5600P	K	50V	1
C133	403 047 1502	ELECT	4.7U	M	25V	1
C134	403 047 1502	ELECT	4.7U	M	25V	1
C135	403 033 9406	CERAMIC	820P	K	50V	1
C136	403 033 9406	CERAMIC	820P	K	50V	1
C137	403 042 0302	ELECT	10U	M	16V	1
C138	403 042 0302	ELECT	10U	M	16V	1
C139	403 060 1008	POLYESTER	2700P	K	50V	1
C140	403 060 1008	POLYESTER	2700P	K	50V	1
C141	403 047 1502	ELECT	4.7U	M	25V	1
C142	403 047 1502	ELECT	4.7U	M	25V	1
C143	403 026 8201	CERAMIC	470P	K	50V	1
C144	403 026 8201	CERAMIC	470P	K	50V	1
C145	403 060 2807	POLYESTER	0.027U	K	50V	1
C146	403 060 2807	POLYESTER	0.027U	K	50V	1
C147	403 060 2807	POLYESTER	0.027U	K	50V	1
C148	403 060 2807	POLYESTER	0.027U	K	50V	1
C149	403 063 0503	POLYESTER	6800P	K	50V	1
C150	403 063 0503	POLYESTER	6800P	K	50V	1
C151	403 058 3700	POLYESTER	0.015U	K	50V	1
C152	403 058 3700	POLYESTER	0.015U	K	50V	1
C153	403 049 1609	ELECT	1U	M	50V	1
C154	403 049 1609	ELECT	1U	M	50V	1
C155	403 042 0302	ELECT	10U	M	16V	1
C156	403 042 0302	ELECT	10U	M	16V	1
C157	403 048 7602	ELECT	0.47U	M	50V	1
C158	403 048 7602	ELECT	0.47U	M	50V	1
C159	403 049 1609	ELECT	1U	M	50V	1
C160	403 049 1609	ELECT	1U	M	50V	1
C161	403 009 8105	CERAMIC	100P	K	50V	1
C162	403 009 8105	CERAMIC	100P	K	50V	1
C163	403 029 0509	CERAMIC	560P	K	50V	1
C164	403 029 0509	CERAMIC	560P	K	50V	1
C301	403 042 0302	ELECT	10U	M	16V	1
C302	403 047 1502	ELECT	4.7U	M	25V	1
C303	403 042 3600	ELECT	100U	M	16V	1
C304	403 043 1100	ELECT	220U	M	16V	1
C305	403 044 0201	ELECT	47U	M	16V	1
C306	403 050 1209	ELECT	2.2U	M	50V	1
C307	403 040 4807	ELECT	220U	M	10V	1
C308	403 040 4708	ELECT	220U	M	10V	1
C309	403 040 2704	ELECT	22U	M	10V	1
C310	403 047 9607	ELECT	0.1U	M	50V	1
C312	403 083 2204	POLYPRO	0.012U	J	250V	1
C313	403 059 6601	POLYESTER	0.022U	K	50V	1
C314	403 057 0908	POLYESTER	0.01U	K	50V	1
C315	403 047 1502	ELECT	4.7U	M	25V	1
C316	403 072 2703	CERAMIC	0.022U	Z	50V	1
C317	403 044 3004	ELECT	470U	M	16V	1
C318	403 042 3600	ELECT	100U	M	16V	1
C319	403 045 2907	ELECT	1000U	M	25V	1
C320	403 044 0201	ELECT	47U	M	16V	1
C321	403 044 0201	ELECT	47U	M	16V	1
C325	403 049 1609	ELECT	1U	M	50V	1
C327	403 041 3304	ELECT	47U	M	10V	1
R101	401 012 7009	CARBON	10K	JA	1/4W	1
R102	401 012 7009	CARBON	10K	JA	1/4W	1
R103	401 024 7707	CARBON	100K	JA	1/6W	1
R104	401 024 7707	CARBON	100K	JA	1/6W	1
R105	401 024 7707	CARBON	100K	JA	1/6W	1
R106	401 024 7707	CARBON	100K	JA	1/6W	1
R107	401 024 7004	CARBON	1K	JA	1/6W	1
R108	401 024 7004	CARBON	1K	JA	1/6W	1
R109	401 027 8602	CARBON	8.2K	JA	1/6W	1
R110	401 027 8602	CARBON	8.2K	JA	1/6W	1
R111	401 027 5502	CARBON	6.8K	JA	1/6W	1
R112	401 027 5502	CARBON	6.8K	JA	1/6W	1
R113	401 025 4903	CARBON	180K	JA	1/6W	1
R114	401 025 4903	CARBON	180K	JA	1/6W	1
R115	401 024 7004	CARBON	1K	JA	1/6W	1
R116	401 024 7004	CARBON	1K	JA	1/6W	1
R117	401 016 3809	CARBON	2.2K	JA	1/4W	1

Ref. No.	Part No.	Description				Q'ty
R118	401 016 3809	CARBON	2.2K	JA	1/4W	1
R121	401 025 7805	CARBON	2.2K	JA	1/6W	1
R122	401 025 7805	CARBON	2.2K	JA	1/6W	1
R123	401 025 8703	CARBON	220K	JA	1/6W	1
R124	401 025 8703	CARBON	220K	JA	1/6W	1
R125	401 025 8208	CARBON	22K	JA	1/6W	1
R126	401 025 8208	CARBON	22K	JA	1/6W	1
R127	401 024 7707	CARBON	100K	JA	1/6W	1
R128	401 024 7707	CARBON	100K	JA	1/6W	1
R129	401 026 4308	CARBON	3.3K	JA	1/6W	1
R130	401 026 4308	CARBON	3.3K	JA	1/6W	1
R131	401 025 2305	CARBON	150K	JA	1/6W	1
R132	401 025 2305	CARBON	150K	JA	1/6W	1
R133	401 026 1604	CARBON	270K	JA	1/6W	1
R134	401 026 1604	CARBON	270K	JA	1/6W	1
R135	401 024 7707	CARBON	100K	JA	1/6W	1
R136	401 024 7707	CARBON	100K	JA	1/6W	1
R137	401 027 0309	CARBON	47K	JA	1/6W	1
R138	401 027 0309	CARBON	47K	JA	1/6W	1
R139	401 025 3807	CARBON	180	JA	1/6W	1
R140	401 015 1608	CARBON	180	JA	1/4W	1
R141	401 012 5708	CARBON	1K	JA	1/4W	1
R142	401 024 7004	CARBON	1K	JA	1/6W	1
R143	401 025 8703	CARBON	220K	JA	1/6W	1
R144	401 025 8703	CARBON	220K	JA	1/6W	1
R145	401 025 8703	CARBON	220K	JA	1/6W	1
R146	401 025 8703	CARBON	220K	JA	1/6W	1
R147	401 012 5708	CARBON	1K	JA	1/4W	1
R148	401 024 7004	CARBON	1K	JA	1/6W	1
R149	401 025 7805	CARBON	2.2K	JA	1/6W	1
R150	401 025 7805	CARBON	2.2K	JA	1/6W	1
R151	401 027 5502	CARBON	6.8K	JA	1/6W	1
R152	401 022 3107	CARBON	6.8K	JA	1/4W	1
R153	401 027 0309	CARBON	47K	JA	1/6W	1
R154	401 027 0309	CARBON	47K	JA	1/6W	1
R155	401 027 9005	CARBON	82K	JA	1/6W	1
R156	401 027 9005	CARBON	82K	JA	1/6W	1
R157	401 013 6407	CARBON	12K	JA	1/4W	1
R158	401 013 6407	CARBON	12K	JA	1/4W	1
R159	401 025 1605	CARBON	1.5K	JA	1/6W	1
R160	401 025 1605	CARBON	1.5K	JA	1/6W	1
R161	401 026 1000	CARBON	2.7K	JA	1/6W	1
R162	401 026 1000	CARBON	2.7K	JA	1/6W	1
R163	401 026 9907	CARBON	4.7K	JA	1/6W	1
R164	401 026 9907	CARBON	4.7K	JA	1/6W	1
R165	401 026 4308	CARBON	3.3K	JA	1/6W	1
R166	401 026 4308	CARBON	3.3K	JA	1/6W	1
R167	401 025 8208	CARBON	22K	JA	1/6W	1
R168	401 025 8208	CARBON	22K	JA	1/6W	1
R169	401 016 4806	CARBON	22K	JA	1/4W	1
R170	401 016 4806	CARBON	22K	JA	1/4W	1
R171	401 025 8208	CARBON	22K	JA	1/6W	1
R172	401 025 8208	CARBON	22K	JA	1/6W	1
R173	401 025 3807	CARBON	180	JA	1/6W	1
R174	401 025 3807	CARBON	180	JA	1/6W	1
R175	401 024 7004	CARBON	1K	JA	1/6W	1
R176	401 024 7004	CARBON	1K	JA	1/6W	1
R177	401 026 3905	CARBON	330	JA	1/6W	1
R178	401 026 3905	CARBON	330	JA	1/6W	1
R179	401 025 8703	CARBON	220K	JA	1/6W	1
R180	401 025 8703	CARBON	220K	JA	1/6W	1
R181	401 024 7400	CARBON	10K	JA	1/6W	1
R182	401 024 7400	CARBON	10K	JA	1/6W	1
R183	401 024 9305	CARBON	1.2K	JA	1/6W	1
R184	401 024 9305	CARBON	1.2K	JA	1/6W	1
R185	401 025 8703	CARBON	220K	JA	1/6W	1
R186	401 025 8703	CARBON	220K	JA	1/6W	1
R187	401 026 4605	CARBON	33K	JA	1/6W	1
R188	401 026 4605	CARBON	33K	JA	1/6W	1
R189	401 025 7805	CARBON	2.2K	JA	1/6W	1
R190	401 025 7805	CARBON	2.2K	JA	1/6W	1
R191	401 023 2802	CARBON	8.2K	JA	1/4W	1
R192	401 023 2802	CARBON	8.2K	JA	1/4W	1
R193	401 026 9907	CARBON	4.7K	JA	1/6W	1
R194	401 026 9907	CARBON	4.7K	JA	1/6W	1
R195	401 027 8602	CARBON	8.2K	JA	1/6W	1
R196	401 027 8602	CARBON	8.2K	JA	1/6W	1
R197	401 024 7400	CARBON	10K	JA	1/6W	1
R198	401 024 7400	CARBON	10K	JA	1/6W	1

P.C.BOARD PARTS LIST (Continued)

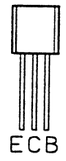
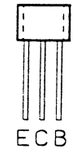
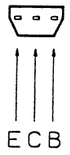
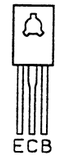
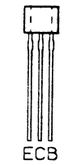
Ref. No.	Part No.	Description	Q'ty
R301	401 012 5708	CARBON 1K JA 1/4W	1
R302	401 024 7707	CARBON 100K JA 1/6W	1
R303	401 012 8105	CARBON 100K JA 1/4W	1
R304	401 017 2801	CARBON 27K JA 1/4W	1
R305	401 025 2305	CARBON 150K JA 1/6W	1
R308	401 016 4806	CARBON 22K JA 1/4W	1
R309	401 020 2904	CARBON 47K JA 1/4W	1
R310	401 025 8208	CARBON 22K JA 1/6W	1
R311	401 025 8208	CARBON 22K JA 1/6W	1
R312	401 012 7009	CARBON 10K JA 1/4W	1
R313	401 025 8208	CARBON 22K JA 1/6W	1
R314	401 022 4104	CARBON 68K JA 1/4W	1
R315	401 024 7707	CARBON 100K JA 1/6W	1
R316	401 012 8105	CARBON 100K JA 1/4W	1
R317	401 027 0309	CARBON 47K JA 1/6W	1
R318	401 025 8208	CARBON 22K JA 1/6W	1
R319	401 016 4806	CARBON 22K JA 1/4W	1
R320	401 024 7004	CARBON 1K JA 1/6W	1
R321	401 026 1000	CARBON 2.7K JA 1/6W	1
R322	401 024 7004	CARBON 1K JA 1/6W	1
R323	401 024 7400	CARBON 10K JA 1/6W	1
R324	401 016 4806	CARBON 22K JA 1/4W	1
R325	401 025 8208	CARBON 22K JA 1/6W	1
R326	401 025 8208	CARBON 22K JA 1/6W	1
R327	401 025 8208	CARBON 22K JA 1/6W	1
R328	401 025 8208	CARBON 22K JA 1/6W	1
R329	401 016 4806	CARBON 22K JA 1/4W	1
R330	401 024 7400	CARBON 10K JA 1/6W	1
R331	401 022 0809	CARBON 68 JA 1/4W	1
R332	401 022 0809	CARBON 68 JA 1/4W	1
R333	401 020 2003	CARBON 4.7K JA 1/4W	1
R334	401 017 2801	CARBON 27K JA 1/4W	1
R335	401 024 7707	CARBON 100K JA 1/6W	1
R338	401 024 7707	CARBON 100K JA 1/6W	1
R341	620 004 5339	LT Resistor 470	1
R342	401 025 0509	CARBON 130 JA 1/6W	1
R346	401 019 5800	CARBON 4.7 JA 1/4W	1
R347	401 026 9303	CARBON 47 JA 1/6W	1
R348	401 024 7400	CARBON 10K JA 1/6W	1
R349	401 018 2800	CARBON 330 JA 1/4W	1
R350	402 028 6406	FUSIBLE RES 15 J- 1/4W	1
R351	401 020 0801	CARBON 470 JA 1/4W	1
R352	401 021 1500	CARBON 560 JA 1/4W	1
R353	401 021 1500	CARBON 560 JA 1/4W	1
R354	401 027 2600	CARBON 5.6K JA 1/6W	1
R355	401 025 8208	CARBON 22K JA 1/6W	1
R356	401 018 2800	CARBON 330 JA 1/4W	1
R365	401 026 4308	CARBON 3.3K JA 1/6W	1
R374	401 025 8208	CARBON 22K JA 1/6W	1
R375	401 016 4806	CARBON 22K JA 1/4W	1
R378	401 025 8208	CARBON 22K JA 1/6W	1
R379	401 012 7009	CARBON 10K JA 1/4W	1
R381	401 016 4806	CARBON 22K JA 1/4W	1
R385	401 016 4806	CARBON 22K JA 1/4W	1
R388	401 025 7805	CARBON 2.2K JA 1/6W	1
		METER P.C.B. ASSY	
42	620 189 7623	Meter P.C.B. Assy	1
	620 051 8932	Spacer (LED)	5
IC302	409 020 2603	IC LB1423N	1
D324	407 028 3806	LED SLP-165B-50	1
or	407 106 5401	LED ULP-R65B-50	1
D325	407 028 3806	LED SLP-165B-50	1
or	407 106 5401	LED ULP-R65B-50	1
D326	407 028 3806	LED SLP-165B-50	1
or	407 106 5401	LED ULP-R65B-50	1
D327	407 028 3806	LED SLP-165B-50	1
or	407 106 5401	LED ULP-R65B-50	1
D328	407 028 3806	LED SLP-165B-50	1
or	407 106 5401	LED ULP-R65B-50	1
C311	403 047 1809	ELECT 4.7U M 25V	1
C324	403 042 0807	ELECT 10U M 16V	1
R336	401 024 7400	CARBON 10K JA 1/6W	1
R380	401 024 7400	CARBON 10K JA 1/6W	1
R381	401 026 7002	CARBON 3.9K JA 1/6W	1

Ref. No.	Part No.	Description	Q'ty
		VOLUME P.C.B. ASSY	
43	620 189 7630	Volume P.C.B. Assy	1
S9	620 016 4375	Push Switch 2P2T	1
VR1	620 190 3591	Slide Volume (A-5kΩx2)	1
		POWER SWITCH P.C.B. ASSY	
44	620 189 7647	Power Switch P.C.B. Assy	1
	620 031 4763	Wire Wrap Terminal	1
S8	620 015 3546	Push Switch 1 Key	1

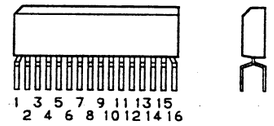
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

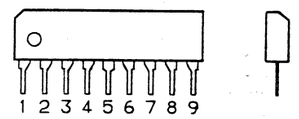
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC1815 2SC3331 2SC3708			2SC536 2SD1012		
2SC1846			RN1203 RN2202		
TERMINAL NAME B → BASE C → COLLECTOR E → EMITTER					

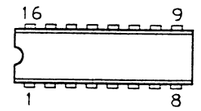
TA7405P FRONT/SIDE VIEWS



LB1423N FRONT/SIDE VIEWS

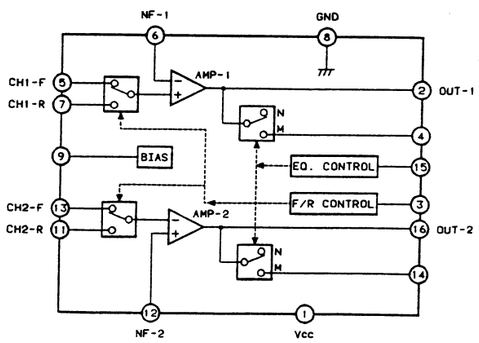


TA7629P TOP VIEW

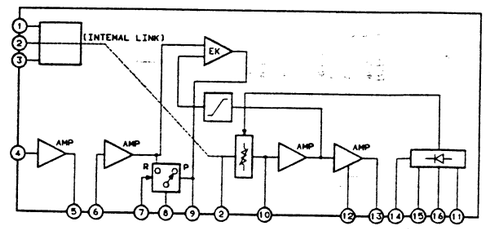


IC BLOCK DIAGRAM

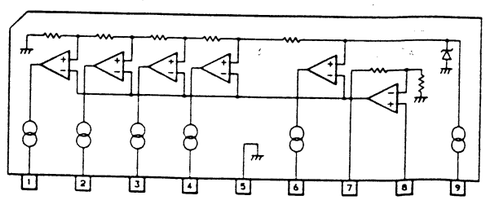
TA7405P BLOCK DIAGRAM



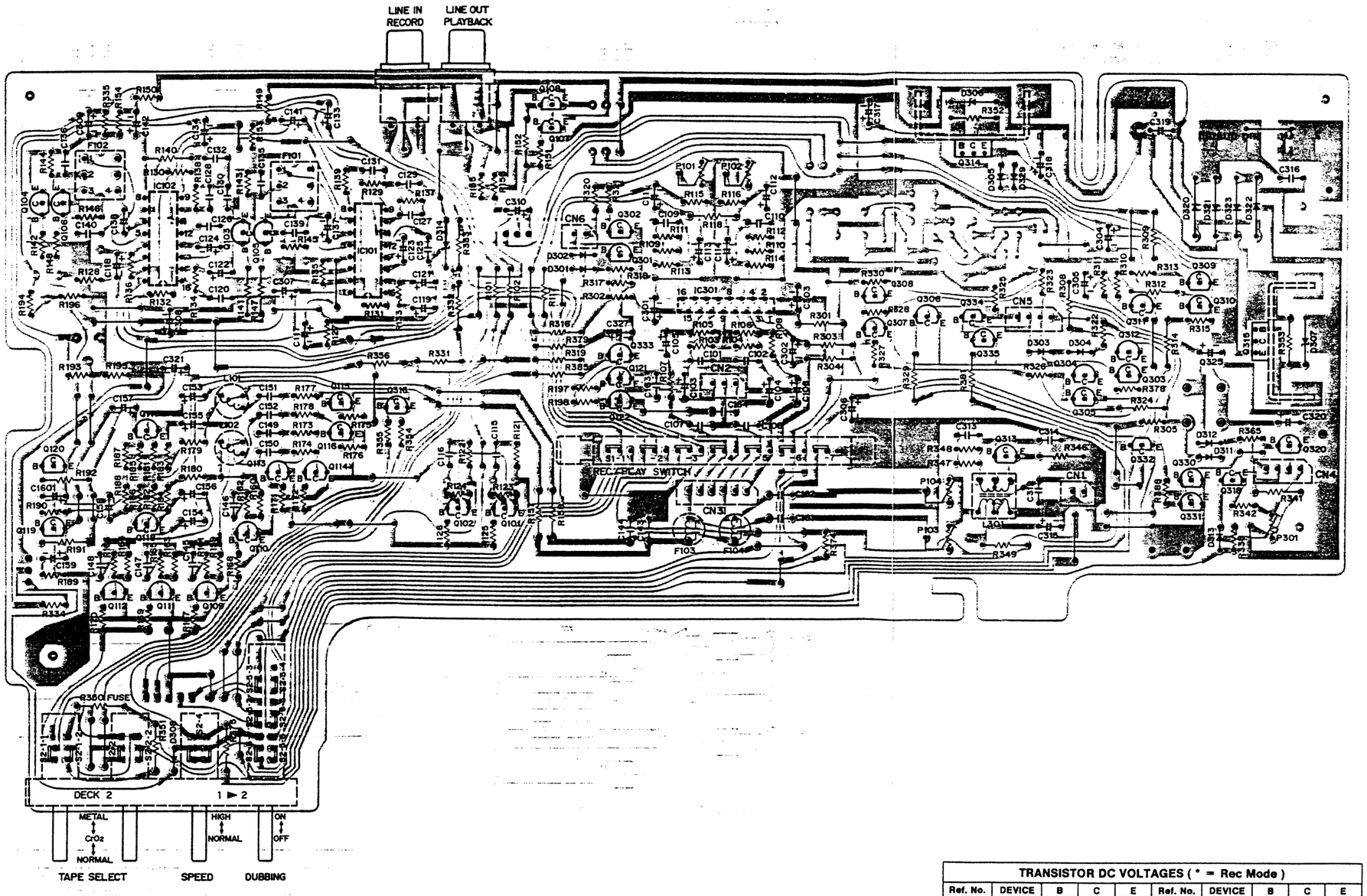
TA7629P BLOCK DIAGRAM



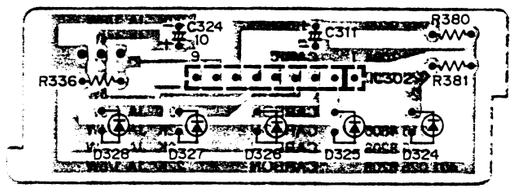
LB1423N BLOCK DIAGRAM



AMPLIFIER P.C.BOARD
(BOTTOM VIEW)



METER P.C.BOARD
(BOTTOM VIEW)

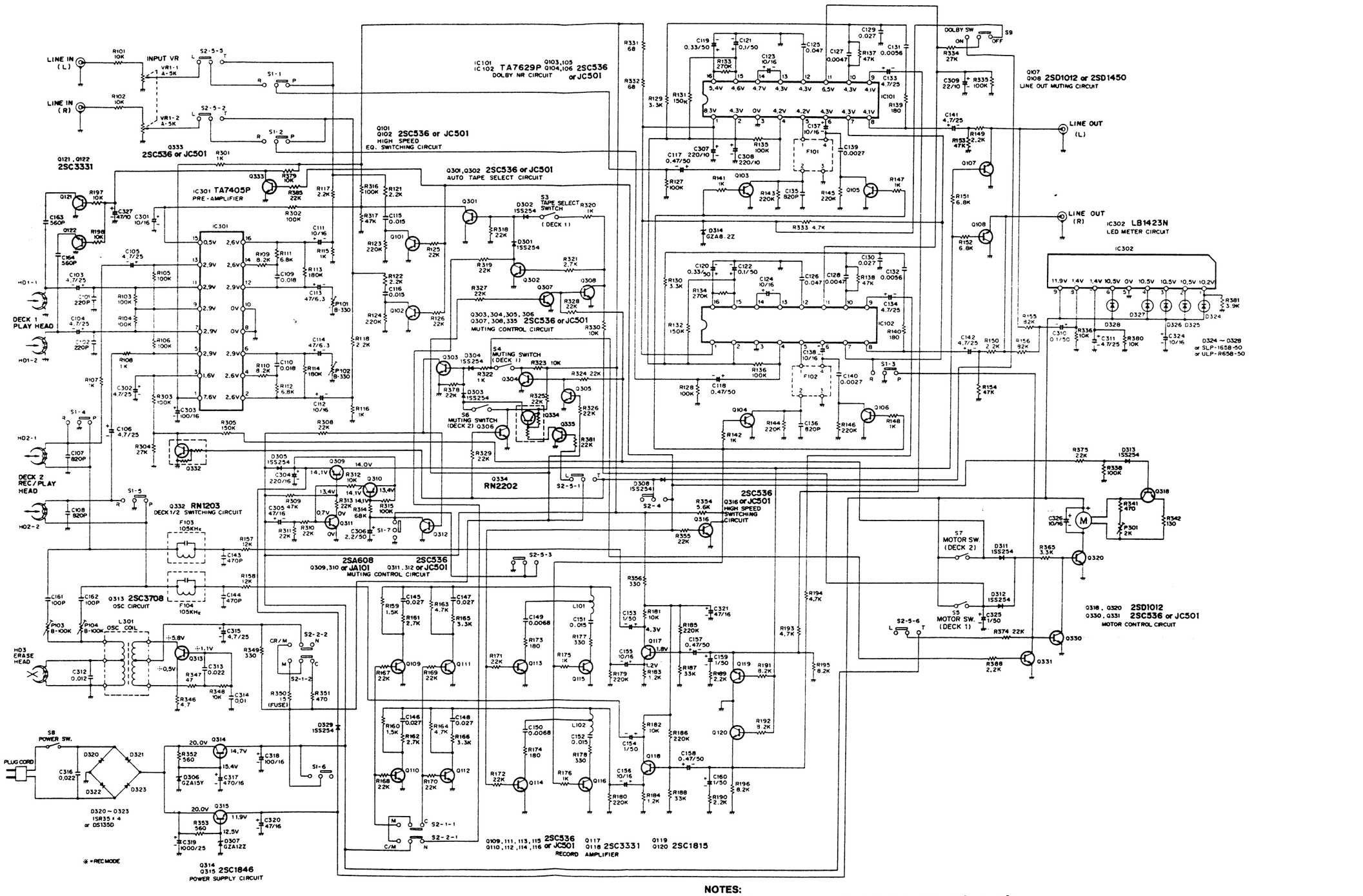


TRANSISTOR DC VOLTAGES (* = Rec Mode)									
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q117,118	2SC3331	1.8V	4.3V	1.2V	Q314	2SC1846	15.4V	20.0V	14.7V
*Q313	2SC3708	1.1V	5.8V	0.5V	Q315	2SC1846	12.5V	20.0V	10.9V

IC PIN NUMBERS DC VOLTAGES																
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC101,102	TA7629P	8.3V	4.3V	0V	4.2V	4.1V	4.3V	4.3V	4.1V	4.1V	4.3V	6.5V	4.3V	4.3V	4.7V	4.6V	5.4V
IC301	TA7405P	7.6V	2.6V	1.6V	2.6V	2.9V	2.9V	2.9V	0V	2.9V	0V	2.9V	2.9V	2.9V	2.6V	0.5V	2.6V

No.	Name	Position
S1	Record/Play Switch	PLAY
S2-1	Tape Select Switch (Deck 2)	NORMAL
S2-2	Tape Select Switch (Deck 2)	NORMAL
S2-4	Speed Switch	NORMAL
S2-5	Dubbing Switch	LINE REC
S3	Tape Select Switch (Deck 1)	OFF
S4	Muting Switch (Deck 1)	OFF
S5	Motor Switch (Deck 1)	OFF
S6	Muting Switch (Deck 2)	OFF
S7	Motor Switch (Deck 2)	OFF
S8	Power Switch	OFF
S9	DOLBY NR Switch	OFF

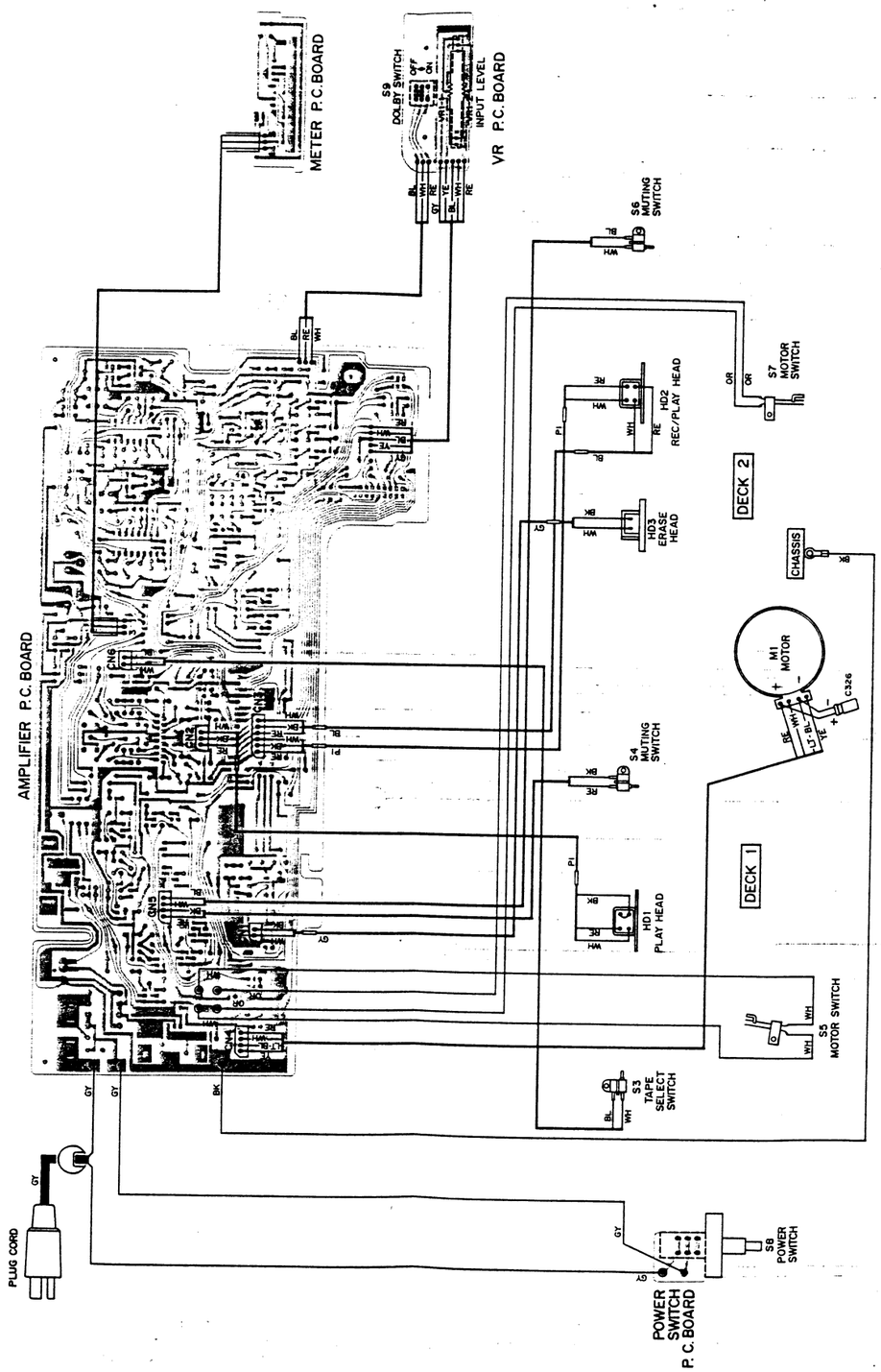
SCHEMATIC DIAGRAM


IC101 IC102 TA7629P DOLBY NR CIRCUIT
Q103,105 Q104,106 2SC536 or JC501
Q101 Q102 2SC536 or JC501 HIGH SPEED EQ. SWITCHING CIRCUIT
Q301,Q302 2SC536 or JC501 AUTO TAPE SELECT CIRCUIT
Q303,304,305,306 Q307,308,335 2SC536 or JC501 MUTING CONTROL CIRCUIT
Q107 Q108 2SD1012 or 2SD1450 LINE OUT MUTING CIRCUIT
IC302 LB1423N LED METER CIRCUIT
Q121,Q122 2SC3331
IC301 TA7405P PRE-AMPLIFIER
Q333 2SC536 or JC501
Q332 RN1203 DECK 1/2 SWITCHING CIRCUIT
Q334 RN2202
Q313 2SC3708 OSC CIRCUIT
2SA608 Q309,310 or JA101 2SC536 Q311,312 or JC501 MUTING CONTROL CIRCUIT
Q316 2SC536 or JC501 HIGH SPEED SWITCHING CIRCUIT
Q318,Q320 2SD1012 Q330,Q331 2SC536 or JC501 MOTOR CONTROL CIRCUIT
Q314 Q315 2SC1846 POWER SUPPLY CIRCUIT
Q109,111,113,115 Q110,112,114,116 2SC536 or JC501 RECORD AMPLIFIER
Q117 Q118 2SC3331
Q119 Q120 2SC1815
LINE IN (L)
LINE IN (R)
INPUT VR
DECK 1 PLAY HEAD
DECK 2 REC/PLAY HEAD
HD3 ERASE HEAD
PLUG CORD
LINE OUT (L)
LINE OUT (R)
DOLBY SW
TAPE SELECT SWITCH (DECK 1)
MUTING SWITCH (DECK 1)
MUTING SWITCH (DECK 2)
MOTOR SW. (DECK 2)
MOTOR SW. (DECK 1)
POWER SW.
CR/M
C/M
0320 ~ 0323 1SR35-4 or DS135D
0324 ~ 0328 or SLP-1658-50 or ULP-R658-50
* = REC MODE

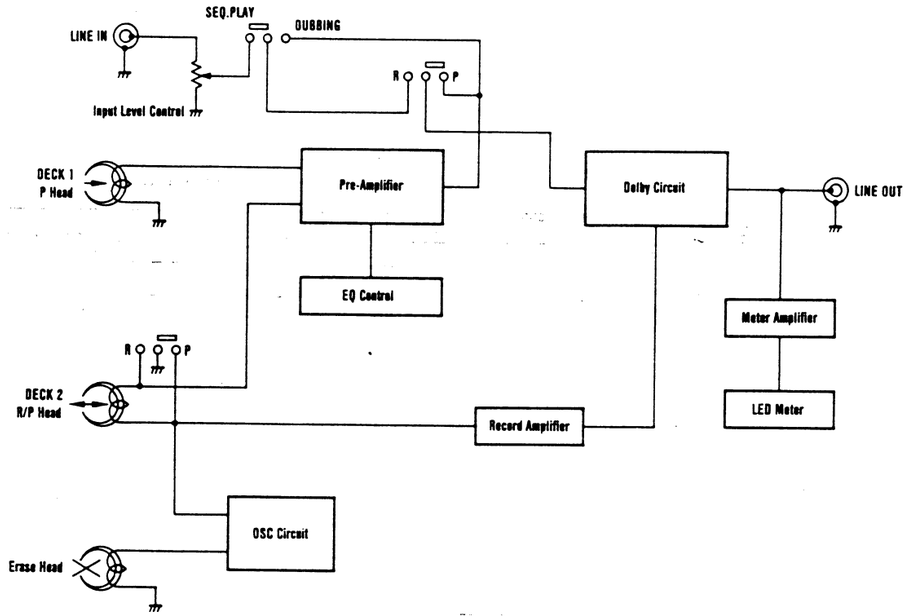
NOTES:

1. All resistors values are indicated in "ohm" (K = 10^3, M = 10^6).
2. All capacitors values are indicated in "μF" (P = 10^{-12}).
3. All voltages indicated on the schematics are measured under the following conditions.
   a. Use a V.T.V.M.
   b. All voltages ±10 % with respect to chassis ground.
   c. No signals at input terminals.
   d. AC input at 16 volts 50 Hz.
4. This is a basic schematic diagram.

WIRING DIAGRAM



FUNCTIONAL BLOCK DIAGRAM



A47500 August/'88/2,000/K **Printed in Japan**

FISHER HI-FI Europa Vertriebs GmbH
Stahlgruberring 4
8000 München 82
Tel: 089/420 45-0
Tlx: 524033

PRODUCTION CHANGE NOTICE

FISHER

Date:June,29,1989

Please add this notice to the Service Manuals listed below.

STEREO DOUBLE CASSETTE DECK

CR-W530

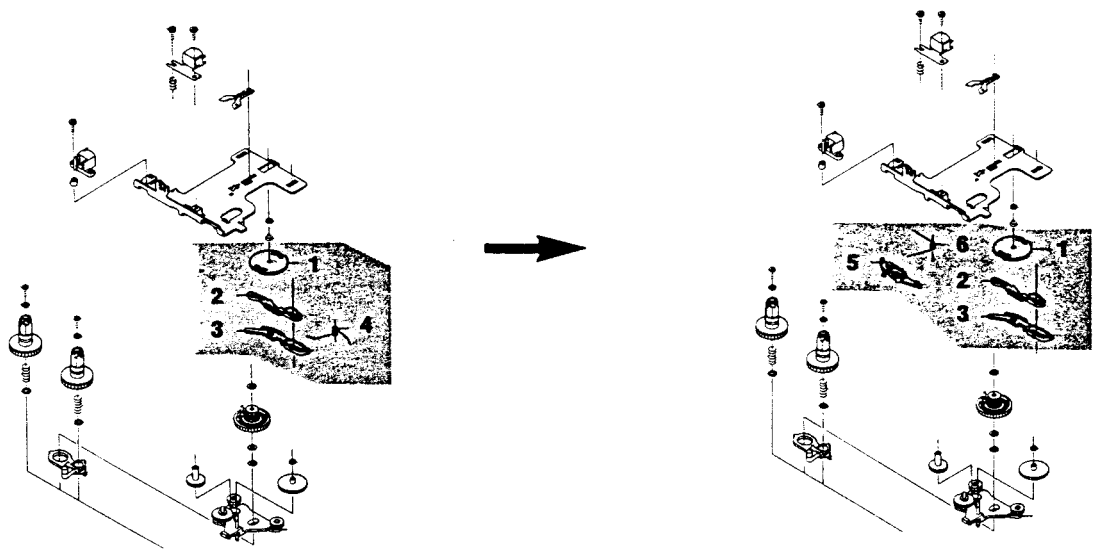
Effective from: Serial No. Running Change

(EUROPE) **REF:WM-570050** **Issue Number 1**

IMPROVEMENT OF MECHANISM

To improve the quality of the above model's mechanism, the GEAR POWER ASO and surroundings were changed. When replacing the parts, order the parts number listed below. Refer to the following table for the parts number and description.

BEFORE **AFTER**



No.	Before		After		Remark
	Part No.	Description	part No.	Description	
1.	620 127 9610	Gear Power ASO	620 193 2072	Gear Power ASO	Change
2.	620 130 7252	Lever Sensor	620 130 7252	Lever Sensor	Equal
3.	620 130 8068	Plate Auto Shut Off	620 130 8068	Plate Auto Shut Off	Equal
4.	620 138 0125	Spring Lever Sensor	– – – –	– – – –	Delete
5.	– – – –	– – – –	620 132 5744	Lever Reverse	Addition
6.	– – – –	– – – –	620 137 9662	Spring Change ASO	Addition

Reason of change: Improvement of Performance

FISHER HI-FI Europa Vertriebs GmbH
Stahlgruberring 4 Tel: 089/420 45-0
8000 München 82 Tlx: 524033

June/'89/2,200/H **Printed in Japan**

REFERENCE No. WM-57047N